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JIANQ CHYUN IPO

Customer No.: 31561
Docket No.: 12739-US-PA

Application No.: 10/710,698

To the Claims:

Claims 1-7 (cancelled)

Claim 8 (currently amended) A physical vapor deposition apparatus, comprising:

a reaction chamber; and

a rotating magnetron[[,]] device, disposed above and outside said reaction

chamber, said rotating magnetron device including at least two magnet sets, said magnet

sets being axially-symmetric or planarly-symmetric to each other and magnetic pole of

said magnet sets being disposed opposite to cach other, wherein two symmetrical

magnets in two correspondingly symmetrical magnet sets have opposite orientations

in magnetic pole and two adjacent magnets in each of said magnet sets have opposite

orientations in magnetic pole.

Claim 9 (currently amended) The apparatus of claim 8, wherein said reaction

chamber includes:

a chamber;

a target backboard, at the top of said chamber; and

a platen disposed at the bottom of said reaction chamber.

Claim 10 (original) The apparatus of claim 9, wherein an axis of said

axially-symmetrically disposed magnet sets or a plane of said planarly-symmetrically

disposed magnet sets passes through a central axis of said target backboard, and when

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performing a physical vapor deposition process, said rotating magnetron device rotates

along said central axis.

Claim 11 (original) The apparatus of claim 8, wherein one of said two magnet

sets includes a first magnet and a second magnet; the other of said two magnet sets

includes a third magnet and a fourth magnet; said first magnet and said third magnet are

disposed axially-symmetrical to each other, said second magnet and said fourth magnet

are disposed axially-symmetrical to each other; a first magnetic pole of said first magnet

and said fourth magnet and a first magnetic pole of said second magnet and said third

magnet are disposed opposite each other.

Claim 12 (original) The apparatus of claim 8, wherein one of said two magnet

sets includes a first magnet and a second magnet; the other of said two magnet sets

includes a third magnet and a fourth magnet; said first magnet and said third magnet are

disposed planarly-symmetrical to each other; said second magnet and said fourth magnet

are disposed planarly-symmetrical to each other; a first magnetic pole of said first magnet

and said fourth magnet, and a first magnetic pole of said second magnet and said third

magnet are disposed opposite to each other.

Claim 13 (currently amended) A physical vapor deposition process, comprising:

providing a chamber and a rotating magnetron device disposed above and

outside said reaction chamber, said rotating magnetron device including at least two

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magnet sets, said magnet sets being disposed axially-symmetrical or planarly-symmetrical and magnetic pole of said magnet sets being disposed opposite, wherein two symmetrical magnets in two correspondingly symmetrical magnet sets have opposite orientations in magnetic pole and two adjacent magnets in each of said magnet sets have opposite orientations in magnetic pole; and

starting said rotating magnetron device to perform a deposition process, and rotating said rotating magnetron device during said deposition process.

Claim 14 (original) The process of claim 13, wherein said magnet sets are disposed axially-symmetrical, and said rotating magnetron device rotates by 180n degrees during said deposition process, wherein said n is a positive integer.

Claim 15 (original) The process of claim 13, wherein said magnet sets are disposed axially-symmetrical, and said rotating magnetron device rotates by 360n degrees during said deposition process, wherein said n is a positive integer.

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## To the Drawings:

The attached sheet of a drawing has a change to FIG. 1. This sheet, which includes FIG. 1, replaces the originally-filed sheet for FIG. 1. More specifically, FIG. 1 is amended to conform to the correction proposed by the Examiner by designated a legend "PRIOR ART".

Attachment: Replacement Sheet Annotated Sheet Showing Changes